

**First Advanced Chilean School on
"EXTRASOLAR PLANETS AND BROWN DWARFS"**

Santiago, Chile, 15-19 December 2003

The Advanced School on "Extrasolar Planets and Brown Dwarfs" is organized by: Católica/Princeton, European Southern Observatory, and FONDAF Center for Astrophysics.

Local and Scientific Organizing Committee members are:

Dante Minniti (Universidad Católica)
Danielle Alloin (European Southern Observatory)
Maria Teresa Ruiz (Universidad de Chile)
Grzegorz Pietrzyński (Universidad de Concepción)

Sponsors are:

ESO, UChile, PU/PUC, Fundación Andes,
FONDAF, NRAO, and SOCHIAS.

The main lecturers will be:

France Allard (ENS Lyon)
Gillian Knapp (Princeton University)
Michel Mayor (Geneva Observatory)
Scott Tremaine (Princeton University)

The lectures will cover the following themes:

Models of brown dwarfs and giant planet atmospheres, predictions.
Observations of brown dwarfs, searches, classification, main properties.
Search for extrasolar planets, main discoveries, future prospects.
Theory of extrasolar planetary systems, formation, dynamical models.

In addition, a number of short invited talks are planned on the topic of the School, and participants are welcome to present posters.

The Advanced School lectures will be aimed at graduate students of Astronomy. Interested participants will find information on the School webpage, <http://www.astro.puc.cl/school> and should fill in an expression of interest form to be emailed back to school@astro.puc.cl before **September 30, 2003**. Financial aid is available upon request. A Second announcement will be sent shortly thereafter.

International Workshop jointly organized by
ESO/Chile, FONDAF-Chile
and Universidad de Chile

PHYSICS of ACTIVE GALACTIC NUCLEI at ALL SCALES

at ESO/Santiago Headquarters, Chile
December 3 to 6, 2003

Invited speakers: Omar Almaini (tbc), Roger Blandford (tbc), Niel Brandt, Bob Fosbury, Jack Gallimore, Shardha Jogee, Hagai Netzer, Brad Peterson
Organizing committee: Danielle Alloin (ESO), Poshak Gandhi (ESO), Rachel Johnson (ESO), Paulina Lira (UChile), Sebastian Lopez (UChile), Jose Maza (UChile)

Aim & scope: FONDAF-Chile, ESO-Chile and Universidad de Chile jointly announce an international workshop on the study of physical processes in AGN environments. One of the goals of the workshop is to train young researchers in the field.

International experts will review a wide range of topics and attendees are invited to present individual contributions. A wealth of new observational constraints on AGN are available thanks to recent key space missions and large ground-based telescopes. Therefore, it is exciting and timely to see how these fit in with model predictions and to explore the new perspectives they bring to the field. A general overview of all related issues, in the form of a tutorial, will introduce the workshop. Then, starting with the theory of BHs and accretion disks, the discussion will focus on the physics of the material in the vicinity of the central source and related radiative processes. Moving to larger scales, interactions with the surrounding stellar environment will be considered before concentrating on the inferred evolution of luminosity functions with redshift and AGN-galaxy formation scenarios. While the emphasis will be on providing a solid theoretical base, appropriate results from recent observations across the electromagnetic spectrum will be discussed.

Chile is a particularly apt venue for this workshop. Its current and planned world-class observational facilities, with their increase in sensitivity (Magellan, Gemini, VLT) and high angular resolution (adaptive optics, VLT, ALMA), are crucial for AGN research.

PERSONNEL MOVEMENTS

International Staff

(1 June 2003 - 31 August 2003)

ARRIVALS

EUROPE

ANWUNAH, Judith (GB), Associate
CASTRO, Sandra (BR), Astronomical Data Analysis Specialist
DOBRYCYCKA, Danuta (PL), Astronomical Data Quality Control Scientist
DOBRYCYCKI, Adam (PL), Data Interface Control Scientist
HEIN, Priya (GB/MS), Administrative Support/Assistant DG Secretariat
KORKIAKOSKI, Visa (SF), Student
McKAY, Derek (AUS) on 04.12.2002, Associate
MIGNANO, Arturo (I), Associate EIS
MUÑOZ, Samuel (RCH), Student
OLIVIER, Nathalie (F), Associate
PETR-GOTZENS, Monika (D), User Support Astronomer
WEIDINGER, Michael (DK), Student

CHILE

GALLIANO, Emmanuel (F), Fellow
HARTUNG, Markus (A), Fellow
HUMMEL, Christian (D), VLT Astronomer
ROEHRLE, Claudia (D), Student
SAVIANE, Ivo (I), Staff Astronomer
VANNIER, Martin (F), Fellow

DEPARTURES

EUROPE

BOXHORN, Andreas (D), Associate
HOMEIER, Nicole (USA), Student
NORMAN, Colin (AUS), Associate
SIKKEMA, Geert (NL), Associate EIS
ZOCCALI, Manuela (I), Fellow

CHILE

ANDERSSON, Andreas (S), Associate SEST
BROOKS, Kate (AUS), Fellow
CABANAC, Rémi (F/CDN), Fellow
COUTURES, Christian (F), Associate Eros II
ELLISON, Sara (GB), Fellow
HAIKALA, Lauri (SF), Operations Staff Astronomer
LERNER, Mikael (S), Microwave Engineer
MAURY, Alain (F), Associate Eros II
NIELBOCK, Markus (D), Fellow
WILLIS, Jon (GB), Fellow

Local Staff

(1 June 2003 - 31 August 2003)

ARRIVALS

AGUILAR URREA, Luis, Safety Engineer
BENDEK SELMAN, Eduardo, Instrumentation Engineer
CARCAMO URIBE, Ruben, Maintenance Mechanical Technician
CARRASCO PEREZ, Oscar, Safety Engineer
CORREA GUTIERREZ, Alex, Data Handling Administrator
JIMENEZ ROJAS, Jorge, Instrumentation Maintenance Technician
MADRAZO ROSALES, Maria, Accounting Clerk
PEREZ BEAUPUITS, Juan Pablo, Electronic Engineer ALMA
ROA FIGUEROA, Mauricio, Software Engineer
SANHUEZA SLATER, Roberto, Data Handling Administrator
SICLARI BORDONES, Waldo, Maintenance Mechanical Technician

DEPARTURES

HERRERA MOLINOS, Gabriel, Maintenance Mechanical Technician
MCKINSTRY, Christopher, Telescope Instrument Operator
MORNHINWEG KROHMER, Manfred, Electrician
PEÑAFIEL BARRERA, Juan, Safety Engineer
VARAS CUBILLOS, Humberto, Safety Engineer

Applications are invited for a Staff Astronomer position at APEX (the Atacama Pathfinder EXperiment) located on Chajnantor near San Pedro de Atacama, Chile.

Staff Astronomer (CSO111)

CAREER PATH: V

Assignment: APEX is a sub-mm telescope presently being erected at the ALMA site of Chajnantor in Chile through a collaboration between the MPIfR, ESO and Sweden. The site is excellent for sub-mm observations, and the telescope will be equipped with bolometer arrays and heterodyne receivers for observations at sub-mm wavelengths as well as in the THz band. We seek two staff astronomers for APEX. They will join a team of scientists, engineers, and technicians, in total 20 people, responsible for the operation and maintenance of the antenna and its instrumentation. Astronomers will be part of the science operations group responsible to support observations, both in visitor mode and service mode, to develop calibration and quality control procedures for the instruments, to control the configuration of the system, and to develop operational procedures for the telescope including pointing models. The Science Operations team will consist of staff astronomers, fellows and telescope operators.

As an astronomer and member of the ESO Science Faculty, the successful candidate will be expected and encouraged to actively conduct astronomical research up to 50% of the time using APEX and other facilities. The APEX astronomers spend 105 nights per year carrying out functional duties in the APEX base in San Pedro de Atacama and at the telescope, which is located on Chajnantor at an altitude of 5000 m, usually in a shift of 8 days in San Pedro with trips to Chajnantor, followed by 6 days off. The rest of their time is spent in the Santiago office. Scientific trips and stays at other institutions, also in Europe are foreseen.

Education: Ph.D. in Astronomy, Physics or equivalent

Experience and knowledge: APEX is seeking active staff astronomers with a solid publication record in observational astronomy. Observational experience with (sub)mm telescopes will be an asset. At least three years of post-doctoral experience as well as excellent communication skills and a good command of the English language (spoken and written) will be required.

Duty station: San Pedro de Atacama, La Silla and Santiago, Chile

Starting date: As soon as possible

Contract: The initial contract is for a period of three years with the possibility of a fixed-term extension. Promotions will be based on scientific as well as functional achievements. It is necessary to take a high altitude medical examination before taking up the post.

Remuneration: We offer an attractive remuneration package including a competitive salary (tax-free) and comprehensive social benefits. Furthermore, an expatriation allowance as well as some other allowances may be added. Either the title or the grade may be subject to change according to education and the number of years of experience.

Applications consisting of your CV (in English language) and the ESO Application Form (to be obtained from the ESO Home Page at <http://www.eso.org/>) and four letters of reference should be submitted by **15 October 2003**.

For further information, please consult the ESO Home Page or contact Mrs. Nathalie Kastelyn

ESO Fellowship Programme 2003/2004

THE EUROPEAN SOUTHERN OBSERVATORY AWARDS SEVERAL POSTDOCTORAL FELLOWSHIPS to provide young scientists opportunities and facilities to enhance their research programmes. Its goal is to bring them into close contact with the instruments, activities, and people at one of the world's foremost observatories. For more information about ESO's astronomical research activities please consult <http://www.eso.org/science/>

Fellows have ample opportunities for scientific collaborations, a list of the ESO staff and fellows, and their research interest can be found at <http://www.eso.org/science/sci-pers.html> and <http://www.sc.eso.org/santiago/science/person.html>. The ESO Headquarters in Munich, Germany host the Space Telescope European Coordinating Facility and are situated in the immediate neighbourhood of the Max-Planck-Institutes for Astrophysics and for Extraterrestrial Physics and are only a few kilometres away from the Observatory of the Ludwig-Maximilian University. In Chile, fellows have the opportunity to collaborate with the rapidly expanding Chilean astronomical community in a growing partnership between ESO and the host country's academic community.

In Garching, fellows spend beside their personal research up to 25% of their time on support or development activities of their choice in the area of e.g. instrumentation, user support, archive, VLTI, ALMA, public relations or science operations at the Paranal Observatory. Fellowships in Garching start with an initial contract of one year followed by a two-year extension.

In Chile, the fellowships are granted for one year initially with an extension of three additional years. During the first three years, the fellows are assigned to either the Paranal or La Silla operations groups. They support the astronomers in charge of operational tasks at a level of 50% of their time (split into 80 nights per year up on the mountain and 35 days per year at the Santiago Office). During the fourth year there is no functional work and several options are provided. The fellow may be hosted by a Chilean institution and will thus be eligible to apply for Chilean observing time on all telescopes in Chile. The other options are to spend the fourth year either at ESO's Astronomy Centres in Santiago, Chile, or the ESO Headquarters in Garching, or any institute of astronomy/astrophysics in an ESO member state.

Starting in 2004 three APEX Fellow positions are becoming available within the ESO Fellowship programme in Chile. Applications for these positions are especially encouraged.

We offer an attractive remuneration package including a competitive salary (tax-free), comprehensive social benefits, and provide financial support in relocating families. Furthermore, an expatriation allowance as well as some other allowances may be added. The Outline of the Terms of Service for Fellows at <http://www.eso.org/gen-fac/adm/pers/fellows.html> provides some more details on employment conditions/benefits.

Candidates will be notified of the results of the selection process in December 2003/January 2004. Fellowships begin between April and October of the year in which they are awarded. Selected fellows can join ESO only after having completed their doctorate.

The closing date for applications is October 15, 2003.

Information on how to apply can be found at <http://www.eso.org/gen-fac/adm/pers/vacant/fellows2003-4.html>

ESO, the European Southern Observatory, was created in 1962 to "... establish and operate an astronomical observatory in the southern hemisphere, equipped with powerful instruments, with the aim of furthering and organising collaboration in astronomy..." It is supported by ten countries: Belgium, Denmark, France, Germany, Italy, the Netherlands, Portugal, Sweden, Switzerland and the United Kingdom. ESO operates at three sites in the Atacama desert region of Chile. The Very Large Telescope (VLT), is located on Paranal, a 2,600 m high mountain approximately 130 km south of Antofagasta. The VLT consists of four 8.2 metre diameter telescopes. These telescopes can be used separately, or in combination as a giant interferometer (VLTI). At La Silla, 600 km north of Santiago de Chile at 2,400 m altitude, ESO operates several optical telescopes with diameters up to 3.6 m. The third site is the 5,000 m high Llano de Chajnantor, near San Pedro de Atacama. Here a new submillimetre telescope (APEX) is being completed, and a large submillimetre-wave array of 64 antennas (ALMA) is under development. Over 1300 proposals are made each year for the use of the ESO telescopes. The ESO headquarters are located in Garching, near Munich, Germany. This is the scientific, technical and administrative centre of ESO where technical development programmes are carried out to provide the Paranal and La Silla observatories with the most advanced instruments. ESO employs about 320 international staff members, Fellows and Associates in Europe and Chile, and about 160 local staff members in Chile.

The ESO MESSENGER is published four times a year: normally in March, June, September and December. ESO also publishes Conference Proceedings, Preprints, Technical Notes and other material connected to its activities. Press Releases inform the media about particular events. For further information, contact the ESO Education and Public Relations Department at the following address:

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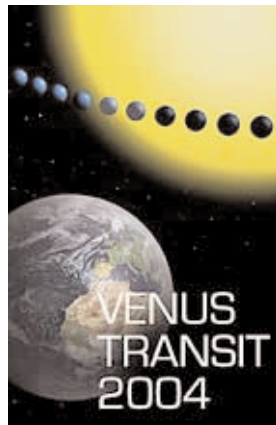
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Venus Rendezvous with the Sun

An invitation to planetariums, public observatories, amateur astronomy associations, etc. to participate in a unique public educational programme



<http://www.eso.org/vt-2004>

On June 8, 2004, Venus passes in front of the Sun. This is a very rare event: the last one occurred in 1882! The founding members of the "VT-2004 consortium", the European Southern Observatory, the European Association for Astronomy Education, the Observatoire de Paris, and the Astronomical Institute of the Academy of Sciences of the Czech Republic, have decided to take advantage of this unique opportunity to launch an *ambitious educational programme aimed at stimulating and activating the broad public and introducing into Europe's schools the subject of the Venus 2004 transit* with its multiple historical, cultural, scientific and technological aspects. A provisional overview of the main goals and means of this programme is given at the VT-2004 website, now in the process of being set up.

We cordially invite your planetarium, public observatory or association to join this exceptional programme by becoming an institutional member of this international network! You may do so by sending an email to vt-2004@eso.org. Please state in this email which (kind of) activities (if any) you are planning in connection with the Venus Transit 2004.

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